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Fig. 1

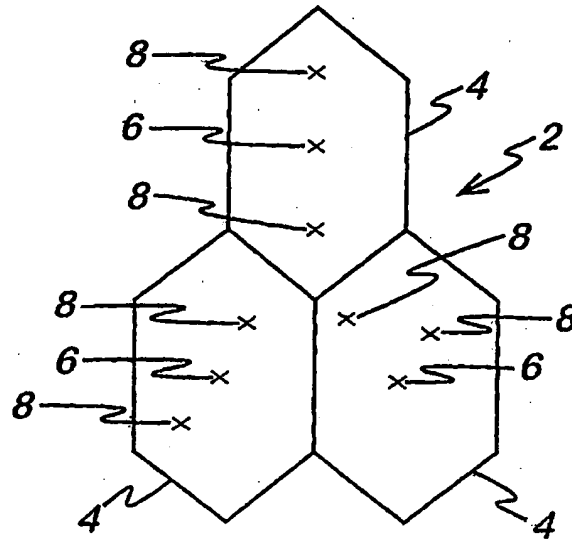
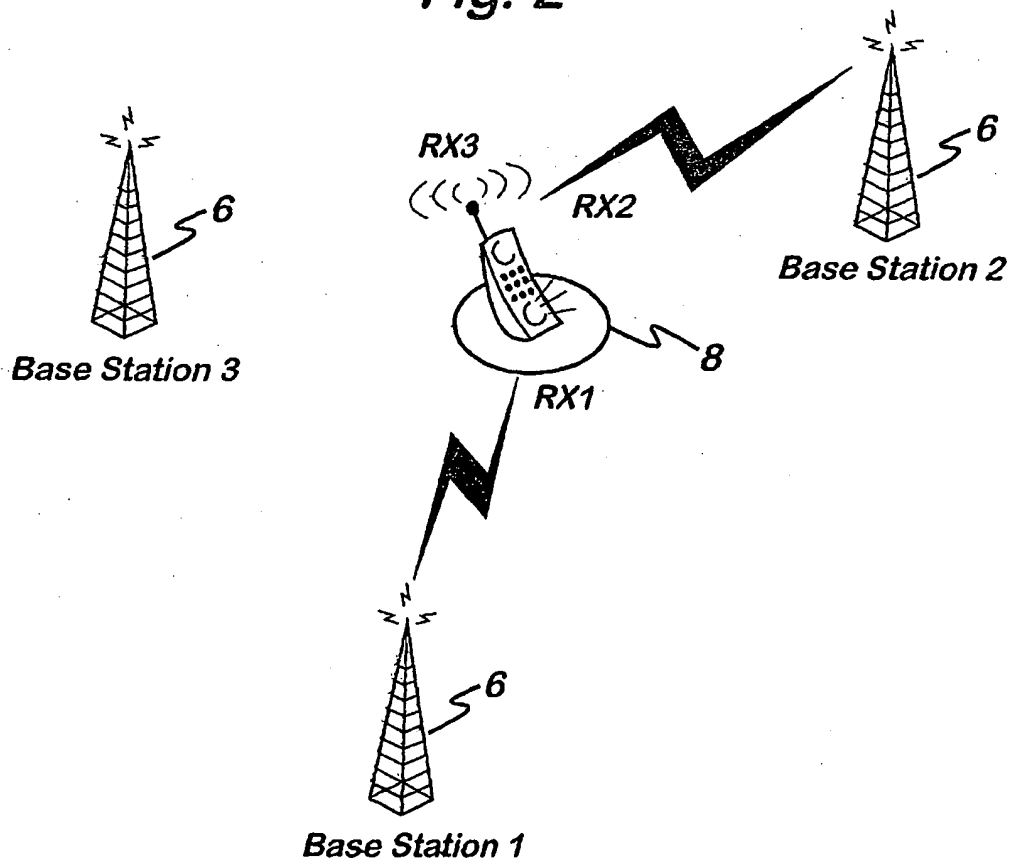


Fig. 2



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Fig. 3

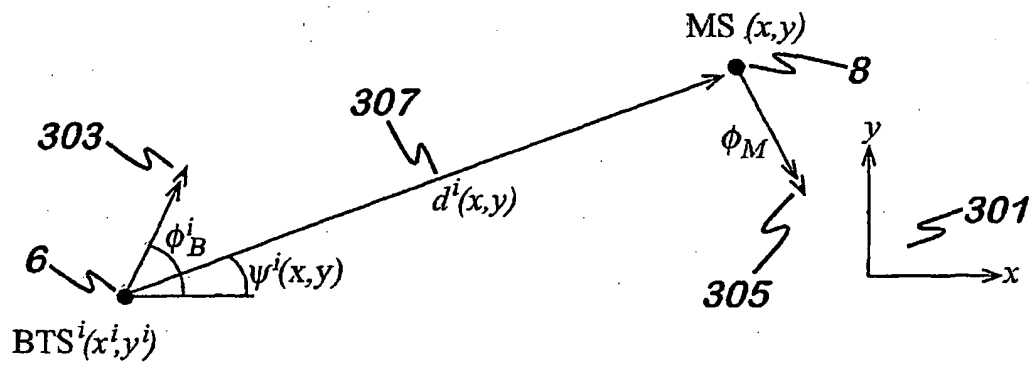
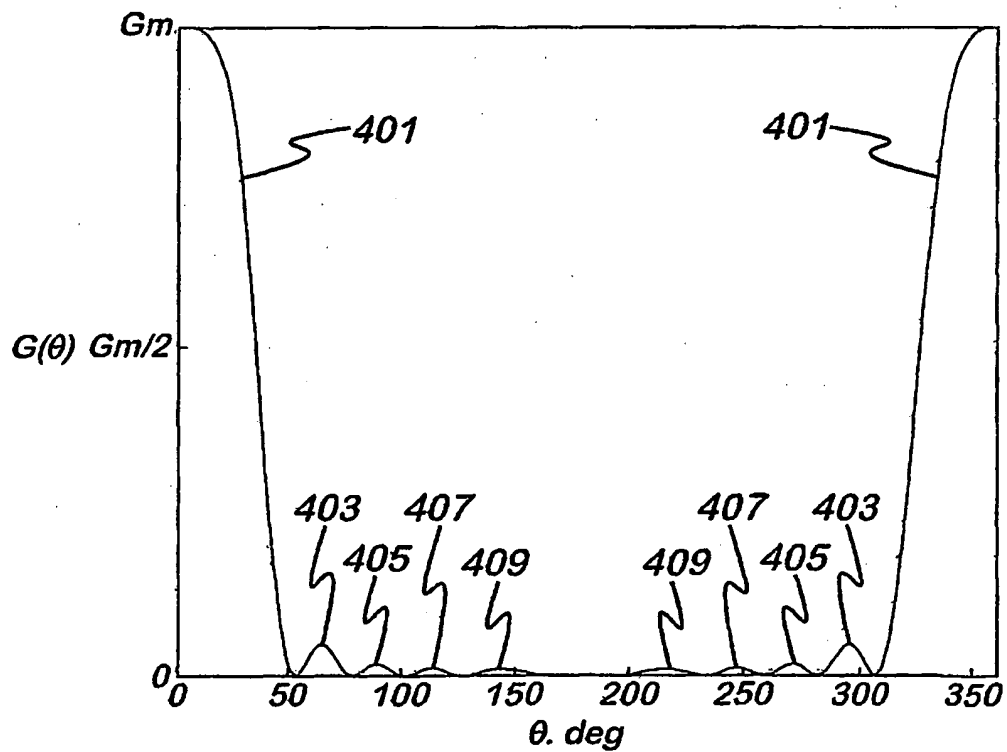
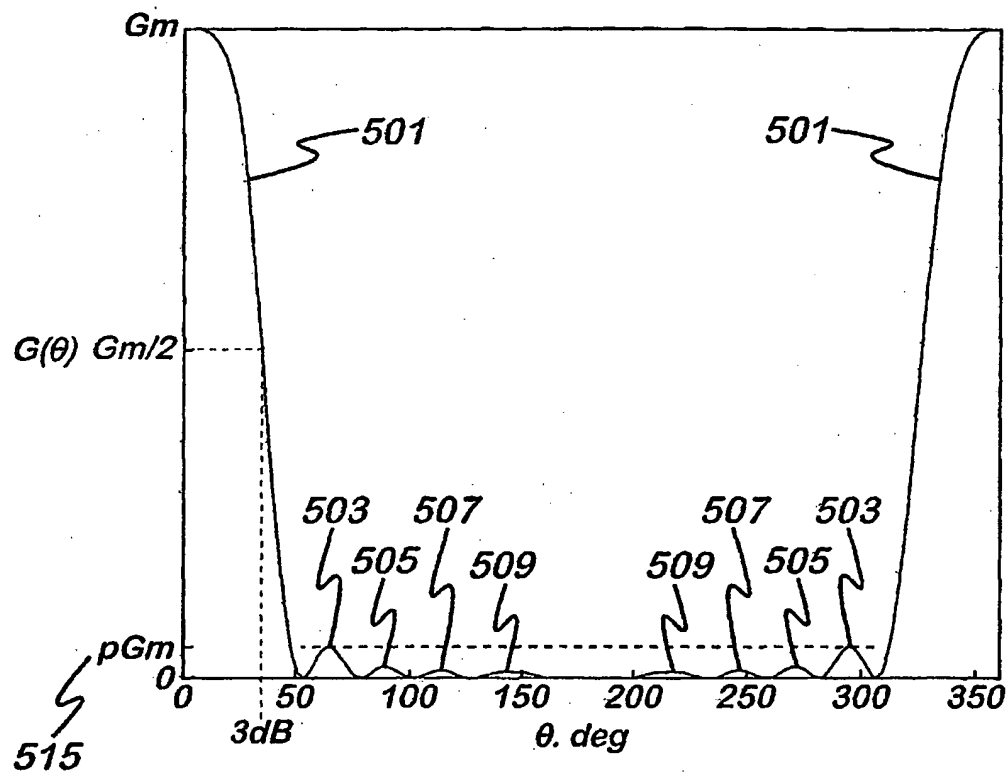


Fig. 4
Example of antenna gain



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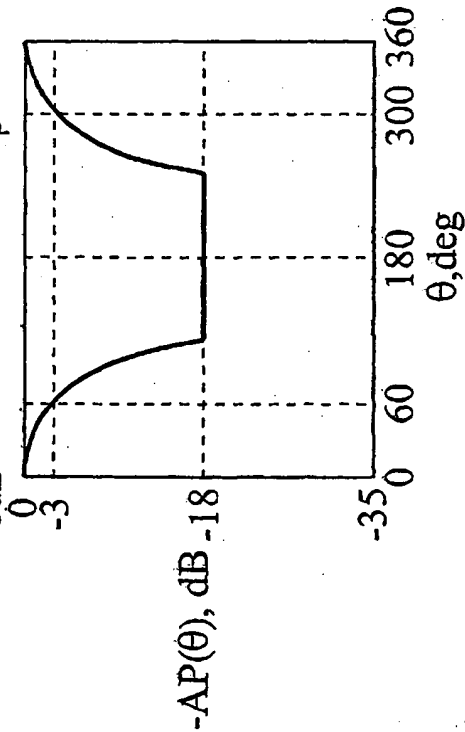
Fig. 5



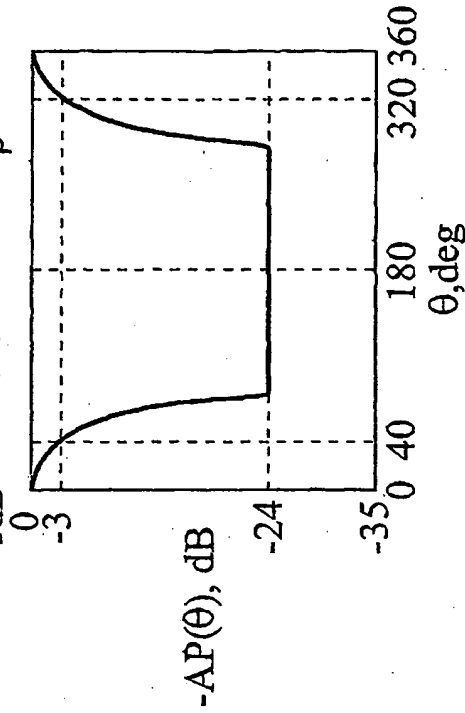
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Fig. 6 Plots of radiation patterns approximated with the $\cos^2 x$ -law. Notice that in the figures the functions $-AP(\theta)$ are depicted.

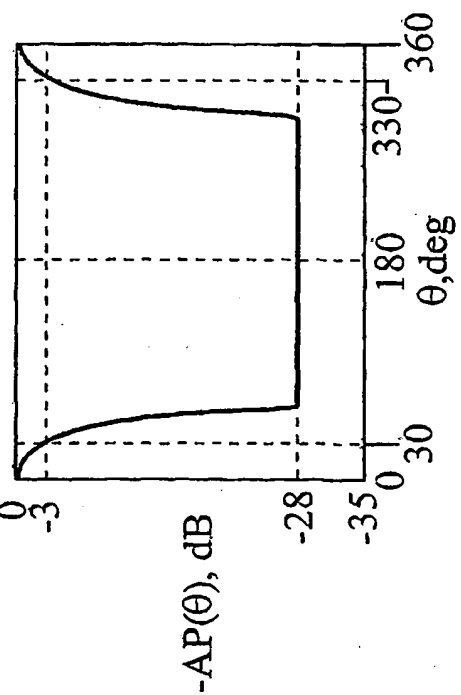
$\theta_{3dB}=60\text{deg}$, $\rho=-18\text{dB}$, $\theta_p=110\text{deg}$.



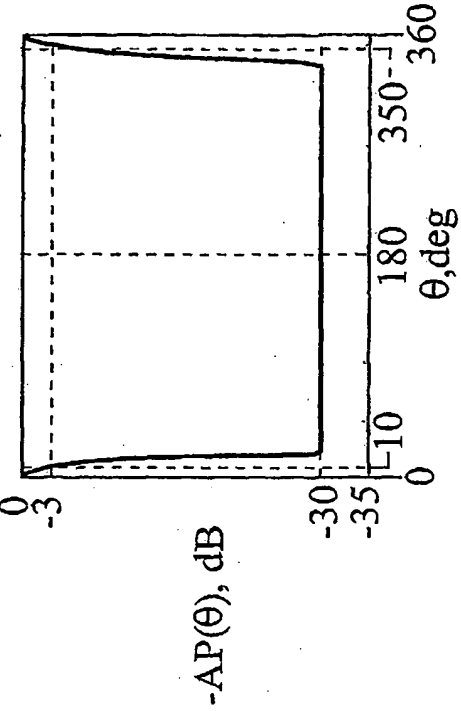
$\theta_{3dB}=40\text{deg}$, $\rho=-24\text{dB}$, $\theta_p=76.8\text{deg}$.



$\theta_{3dB}=30\text{deg}$, $\rho=-28\text{dB}$, $\theta_p=58.5\text{deg}$.

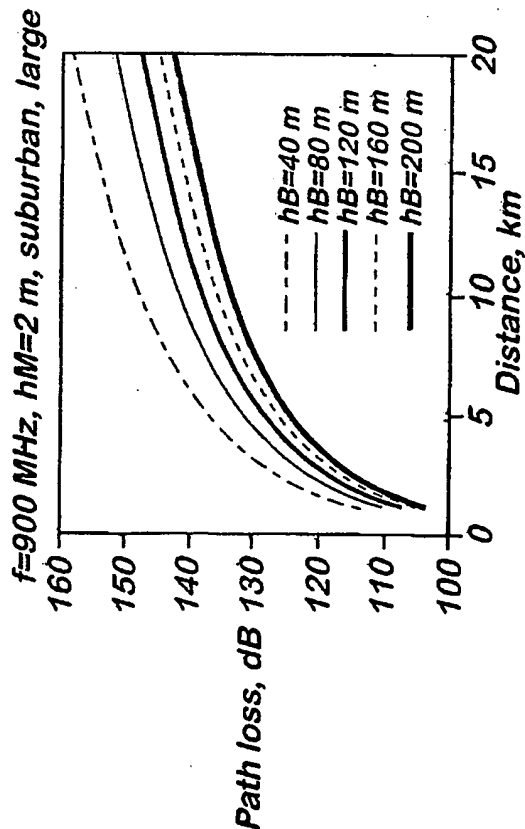
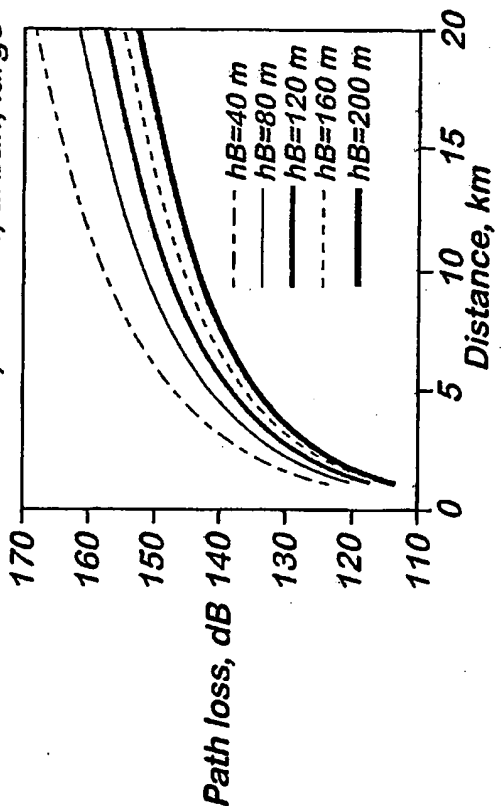
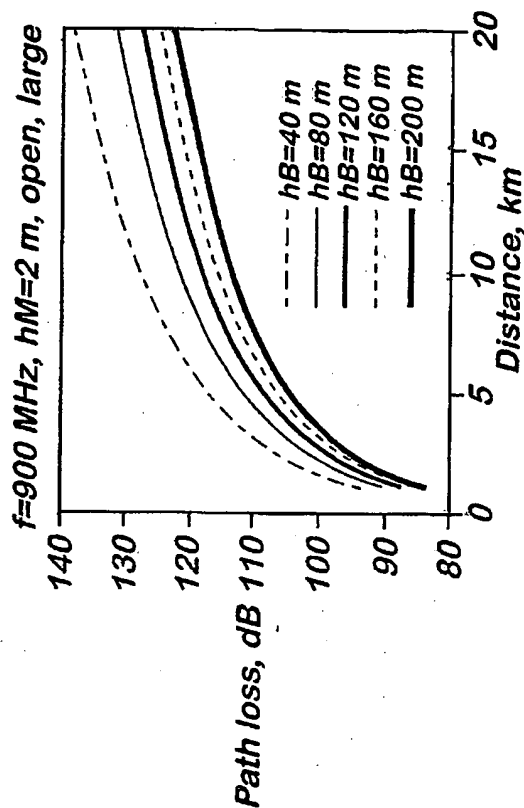
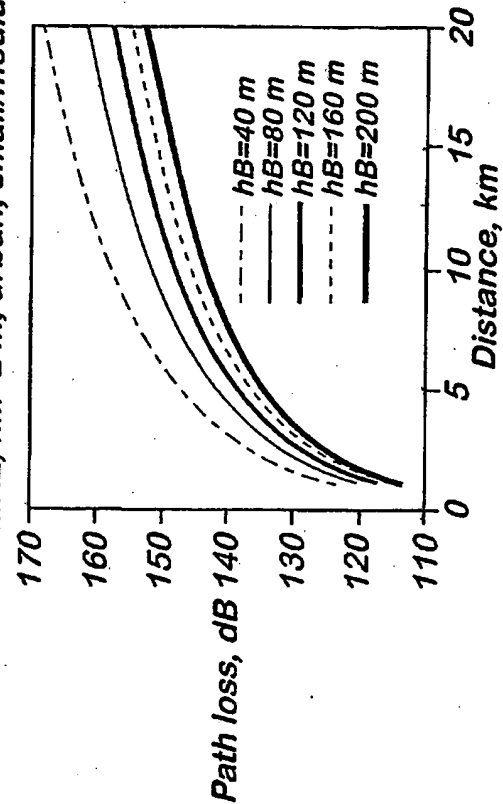


$\theta_{3dB}=10\text{deg}$, $\rho=-30\text{dB}$, $\theta_p=19.6\text{deg}$.

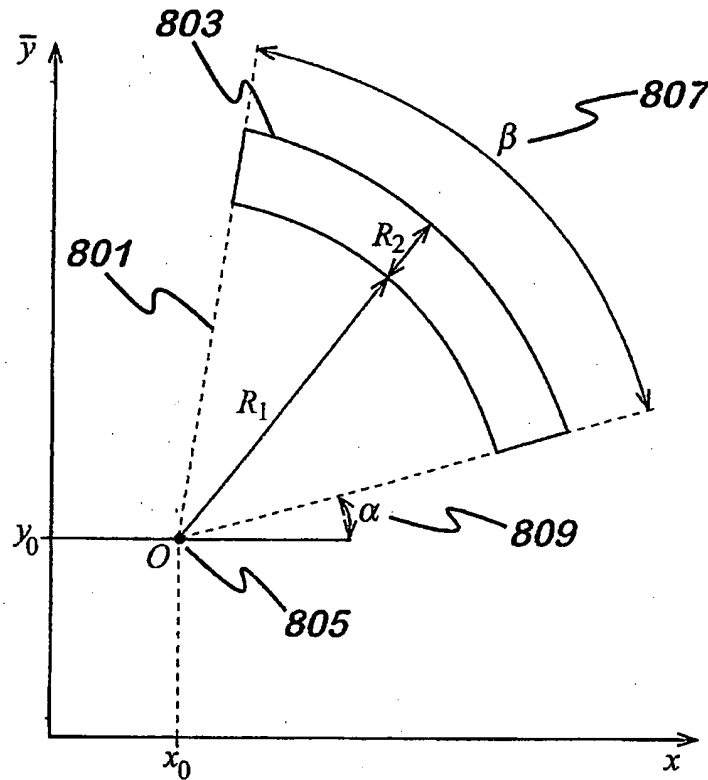
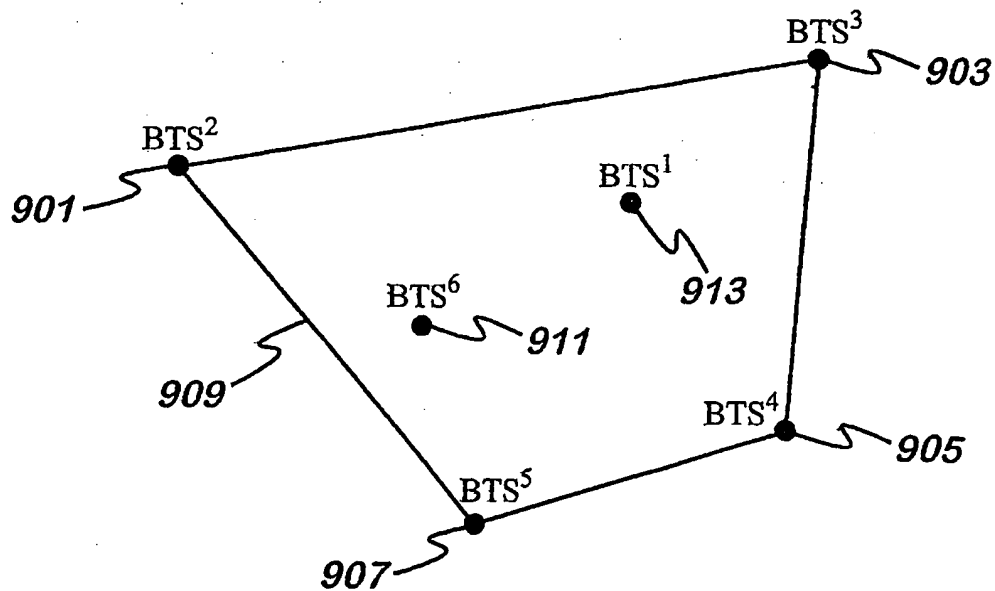


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Fig. 7 Okumura-Hata Path-loss at 900MHz for different environments.
 $f=900$ MHz, $h_M=2$ m, urban, small/medium

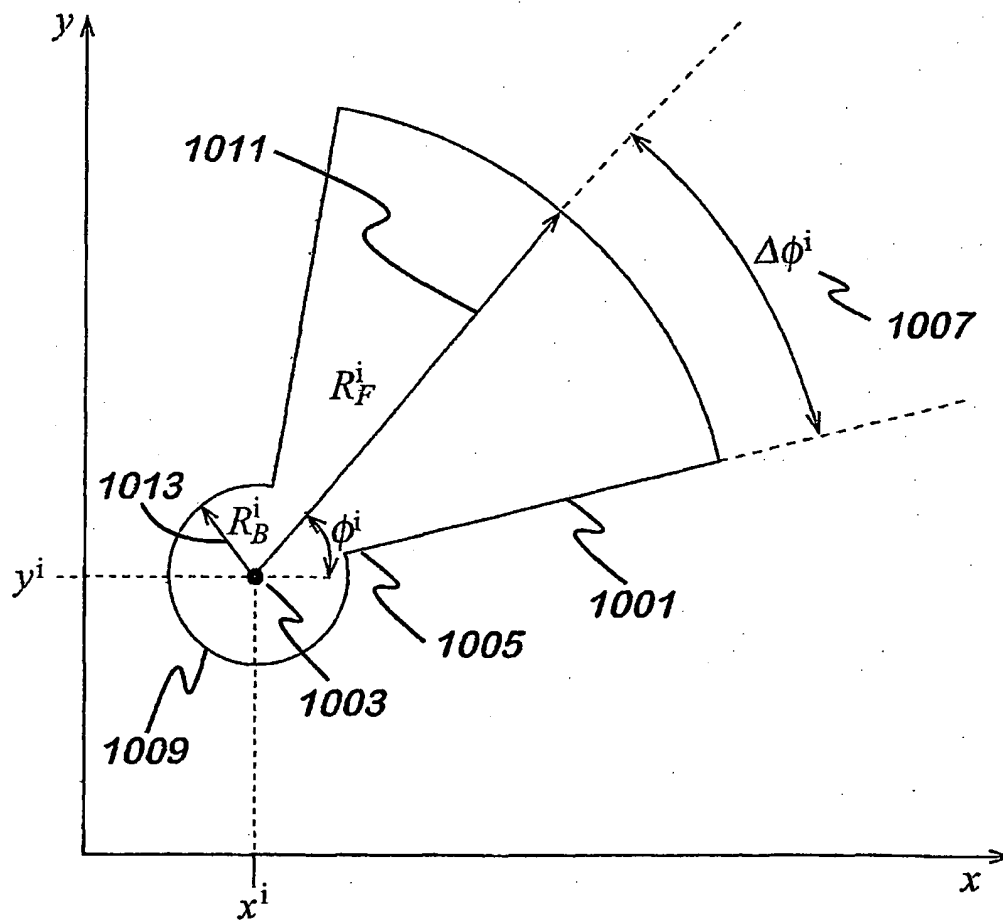


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Fig. 8*D from Cell Identity (and Timing Advance) of serving cell***Fig. 9***D defined from Cell Identity of cells involved*

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Fig. 10
Analytical definition for D_i

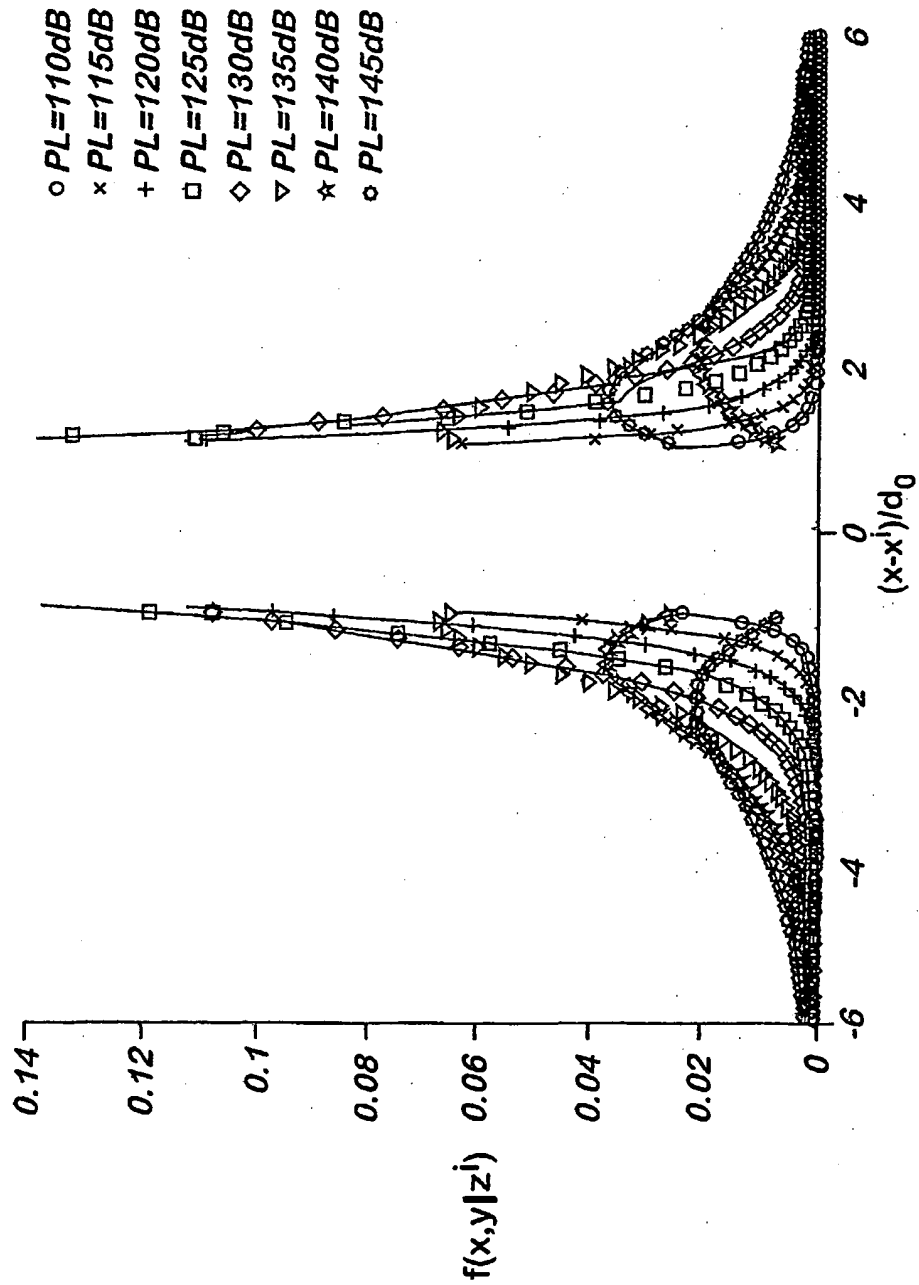


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Fig. 11

Plot of $f(x, y|z^i)$ in equation (30) for different values of path-loss/attenuation.

PDF $f(x, y|z^i)$ in the plane $y=y^i$. $\sigma_u=8$, $A=125$, $B=40$



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Fig. 12 Plots of I_{j0} in equation (45) as a function of path-loss/attenuation

I_{j0} as a function of z^i $\sigma_u^i = 8$, $A^i = 125$, $B^i = 40$

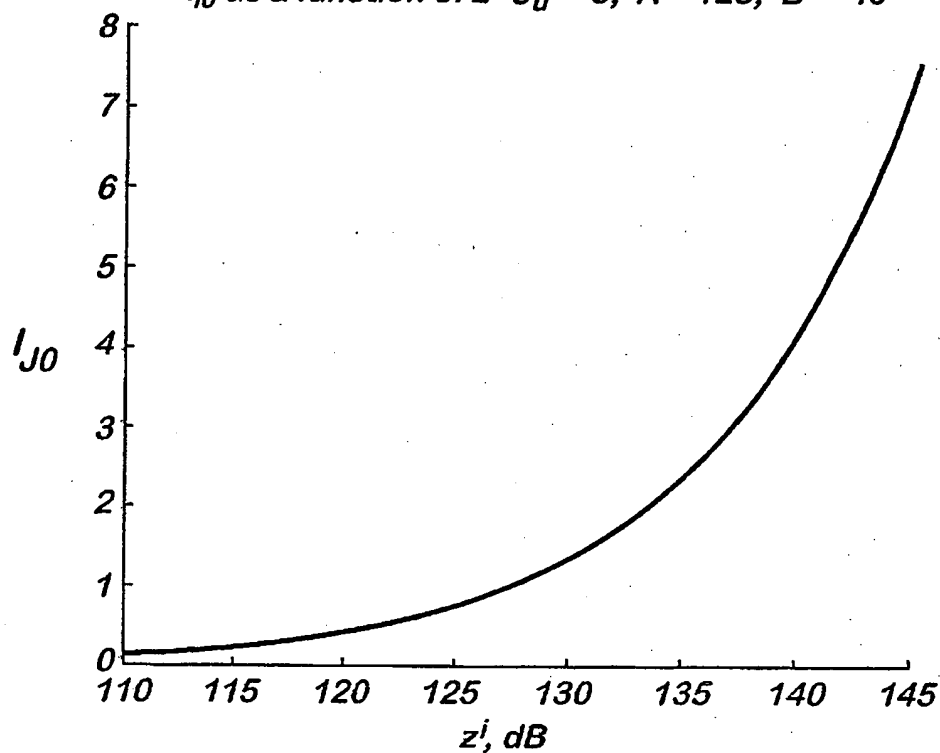
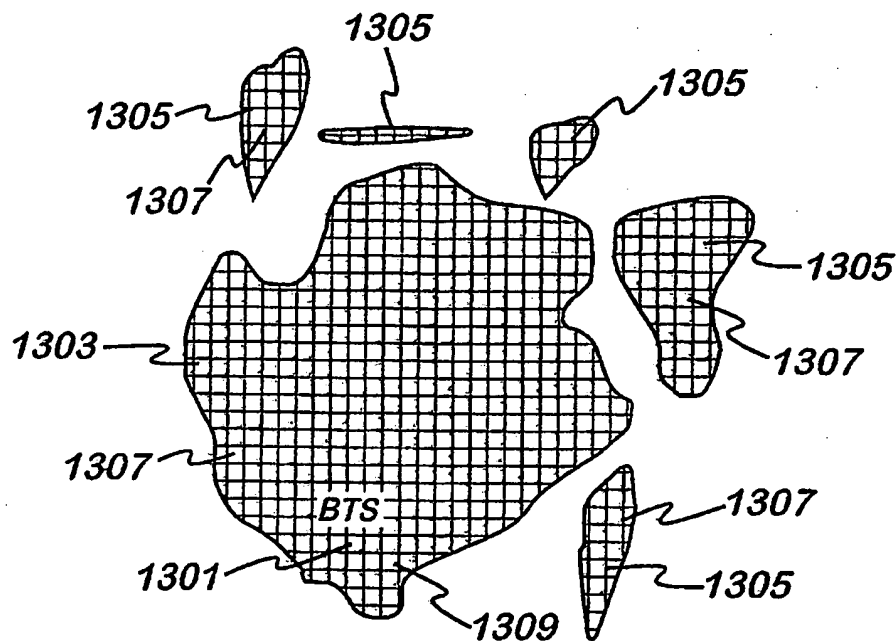
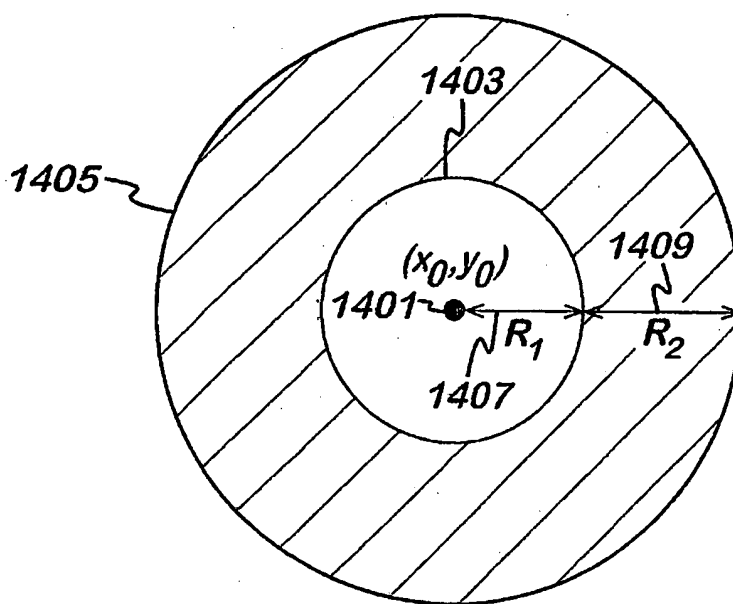
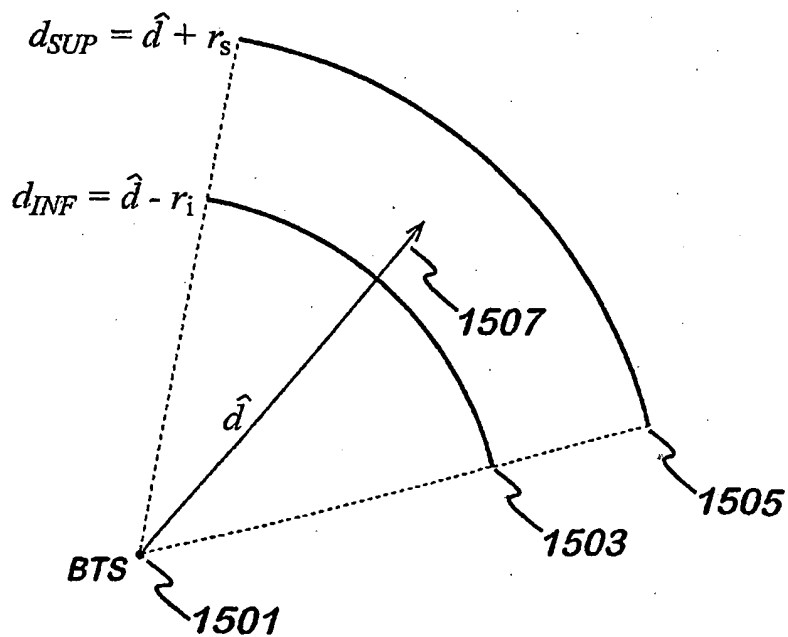


Fig. 13 Example of serving area



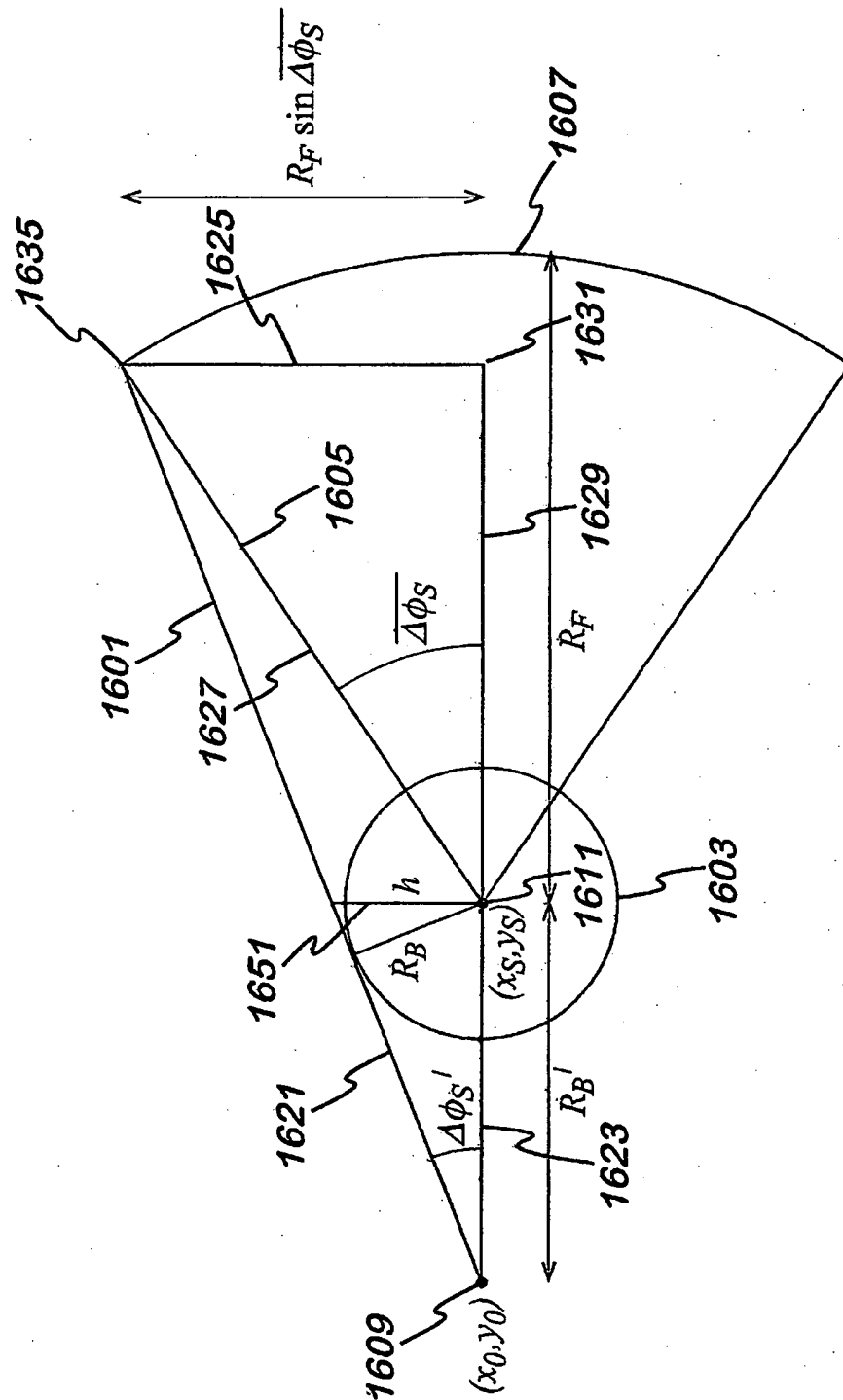
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Fig. 14*The constant-TA circular crown defined in equation (54)***Fig. 15***Definition of estimate of distance and its confidence interval*

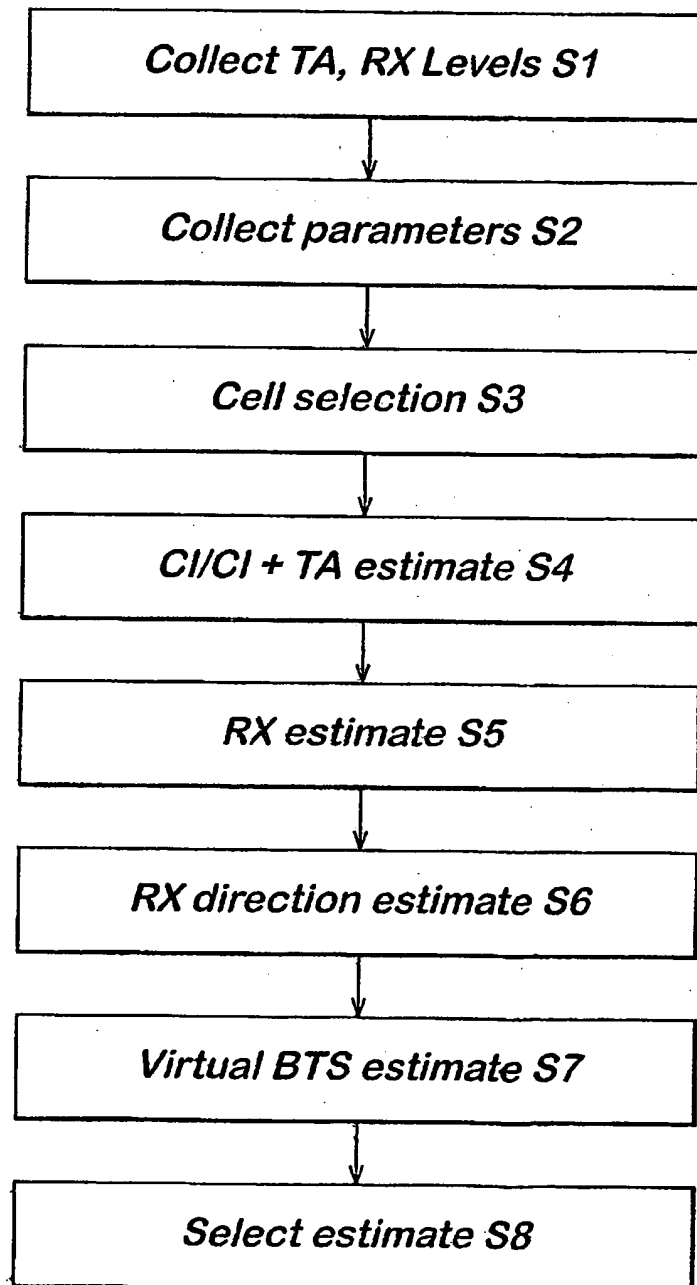
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Fig. 16

Geometry used for calculating the confidence region in the Classic CI Location Algorithm when the serving cell is sectorized. The origin of the confidence region is at (x_0, y_0) . The angular width of the confidence region is $\beta = 2\Delta\phi_S$.



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Fig. 17

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